Page 2

Listing of Claims

1. (Currently amended) A copolymer comprising at least one first monomeric unit and at least one second monomeric unit, wherein the at least one first monomeric unit has a Formulae I and I(a)

and the at least one second monomeric unit is selected from 6-membered-ring heteroaromatic groups having Formula III

$$(R)_3$$
 $(E)_2$ (III)

where:

in each of Formulae I[[, Ia,]] and III:

Page 3

R is a substituent on a carbon atom which can be the same or different at each occurrence and is selected from hydrogen, alkyl, aryl, heteroaikyl, heteroaryl, F, -CN, -OR¹, -CO₂R¹, -C $_{\psi}$ F $_{\lambda}$, -OC $_{\psi}$ H $_{\theta}$ F $_{\lambda}$, -SR¹, -N(R¹)₂, -P(R¹)₂, -SOR¹, -SO₂R¹, -NO₂, and beta-dicarbonyls having Formula XII

$$R^2$$
 CH
 $CH_2)_{\delta}$
 CH
 CH_2
 CH_2

or adjacent R groups together can form a 5- or 6-membered cycloalkyl, aryl, or heteroaryl ring,

such that:

 R^{I} is a substituent on a heteroatom which can be the same or different at each occurrence and is selected from alkyl, aryl, heteroalkyl and heteroaryl; and ψ is an integer between 1 and 20, and θ and λ are integers satisfying Equation A1 below:

$$\theta + \lambda = 2\psi + 1;$$
 (Equation A1);

in Formula III:

E can be the same or different at each occurrence and is a single bond or a linking group selected from arylene and heteroarylene;

in Formula XII:

R² is selected from hydrogen, alkyl, aryl, heteroalkyl and heteroaryl; δ is 0 or an integer from 1 to 12[[,]]; and with the proviso that: when R in formula III is hydrogen, alkyl, F, -CN, -OR¹, or CO₂R¹ the copolymer further comprises end-capping groups that are aromatic.

2. (Original) The copolymer of Claim 1, wherein R groups in one or more of the at least one first monomeric unit are independently selected from alkyl groups having 1 to 30 carbon atoms; heteroalkyl groups having 1-30 carbon atoms and one or more heteroatoms of S, N, or O; aryl groups having from 6 to 20 carbon atoms, and heteroaryl groups having from 2 to 20 carbon atoms and one or more heteroatoms of S, N, or O.

Page 4

- 3. (Original) The copolymer of Claim 1 that excludes any vinylene monomeric units.
- 4. (Previously Presented) The copolymer of Claim 1 wherein each R group in each of Formula I, Formula 1(a), and Formula III is selected from:

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hydrogen;
alkyl;
aryl;
heteroalkyl;
heteroaryl;
F;
-CN;
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-P(R¹)₂ and -SOR¹, where R¹ is a substituent on a heteroatom which can be the same or different at each occurrence and is selected from alkyl, aryl, heteroalkyl and heteroaryl;

-NO₂;

a beta-dicarbonyl having Formula XII;

 $-C_{\psi}H_{\theta}F_{\lambda;}$

 $-OC_{\Psi}H_{\theta}F_{\lambda}$;

 $-OR^{1}$, $-CO_{2}R^{1}$, $-SR^{1}$, $-N(R^{1})_{2}$, and $-SO_{2}R^{1}$ where R^{1} is a straight chain or branched alkyl of more than 20 carbons or a straight chain or branched heteroalkyl.

- 5. (Original) The copolymer of Claim 1 wherein the at least one of the R groups in one or more of the at least one first monomeric unit is independently selected from linear and branched n-butyl groups; linear and branched iso-butyl groups; linear and branched pentyl groups; hexyl groups, and octyl groups with and without olefinic unsaturation; phenyl groups, thiophene groups, carbazole groups, alkoxy groups, phenoxy groups and cyano groups.
- 6. (Original) The copolymer of Claim 1 wherein at least one of the R groups in one or more of the at least one first monomeric unit are independently selected from H, C₆-C₁₂ alkoxy, phenoxy, C₆-C₁₂ alkyl, phenyl and cyano.
- 7. (Previously Presented) The copolymer of Claim 1 wherein one or more of the at least one second monomeric unit is selected from Formulae III(a) through III(g),

Page 5

- 8. (Cancelled).
- 9. (Previously Presented) The copolymer of Claim 1, wherein one or more of the at least one second monomeric unit has Formula III wherein R is selected from:

partially or fully fluorinated alkyl groups having from 1 to 12 carbon atoms;

alkoxy groups having from 1 to 12 carbon atoms;

esters having from 3 to 15 carbon atoms;

-SR 1 , -N(R 1)2, -P(R 1)2, -SOR 1 , -SO₂R 1 , where R 1 is an alkyl group having from 1 to 12 carbon atoms;

-NO₂; and

beta-dicarbonyls having Formula XII

Page 6

$$R^2$$
 CH
 $CH_2)_{\delta}$
 CH_2
 CH_2

where:

in Formula XII:

 $\ensuremath{R^2}$ is an alkyl group having from 1 to 12 carbon atoms and δ is 0, 1, or 2.

10. (Original) The copolymer of Claim 1, where one or more of the at least one second monomeric unit has Formula III wherein:

R groups are selected from hydrogen, C_6 - C_{12} alkyl groups, C_6 - C_{20} aryl groups, and C_2 - C_{20} heteroaryl groups; and

E linking groups are selected from pyridinediyl (- C_5H_4N -) and bipyridinediyl (- C_5H_4N - C_5H_4N -).

11-13. (Cancelled).

- 14. (Original) An electronic device comprising at least one electroactive layer comprising the copolymer of Claim 1.
- 15. (Original) The device of Claim 14, wherein the device comprises a hole injection/transport layer comprising the copolymer of Claim 1.
- 16. (Original) The device of Claim 14, wherein the device comprises an electron injection/transport layer comprising the copolymer of Claim 1.
- 17. (Original) The device of Claim 14, wherein the electroactive layer comprises a light-emitting material comprising the copolymer of Claim 1.
 - 18. (Cancelled).
- 19. (Original) The device of Claim 14, wherein the device is selected from a light-emitting device, a photodetector, and a photovoltaic device.

Page 7

20. (Original) The device of Claim 14, wherein the device is an electroluminescent display.

21. (Currently Amended) A light-emitting device comprising at least one light-emitting layer comprising a copolymer having the following formula

at least one first monomeric unit and at least one second monomeric unit, wherein the at least one first monomeric unit has a Formulae I and I(a)

and the at least one second monomeric unit is selected from 6-membered-ring heteroaromatic groups having Formula III

$$(R)_3$$
 $(E)_2$ (III)

where:

in each of Formulae I[[, Ia,]] and III:

Page 8

R is a substituent on a carbon atom which can be the same or different at each occurrence and is selected from hydrogen, alkyl, aryl, heteroalkyl, heteroaryl, F, - CN, -OR¹, -CO₂R¹, -C $_{\psi}$ H $_{\theta}$ F $_{\lambda}$, -OC $_{\psi}$ H $_{\theta}$ F $_{\lambda}$, -SR¹, -N(R¹)₂, -P(R¹)₂, -SOR¹, - SO₂R¹, -NO₂, and beta-dicarbonyls having Formula XII

$$\begin{array}{cccc}
O & O \\
& \parallel & \\
C & C \\
& C \\
CH_2)_{\delta} & (XII)
\end{array}$$

or adjacent R groups together can form a 5- or 6-membered cycloalkyl, aryl, or heteroaryl ring,

such that:

 R^1 is a substituent on a heteroatom which can be the same or different at each occurrence and is selected from alkyl, aryl, heteroalkyl and heteroaryl; and ψ is an integer between 1 and 20, and θ and λ are integers satisfying Equation A1 below:

$$\theta + \lambda = 2\psi + 1;$$
 (Equation A1);

in Formula III:

E can be the same or different at each occurrence and is a single bond or a linking group selected from arylene and heteroarylene [[.]];_

in Formula XII:

 R^2 is selected from hydrogen, alkyl, aryl, heteroalkyl and heteroaryl; δ is 0 or an integer from 1 to 12.